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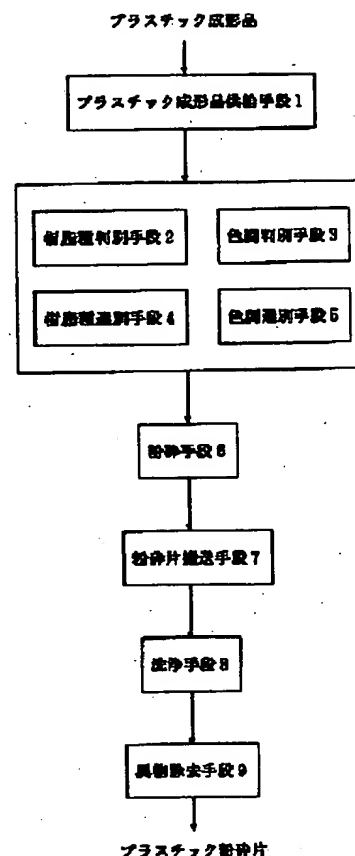
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TITLE : PLASTIC RECYCLING SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To economically obtain a high-purity ground piece by providing a means to distinguish the kind of a resin for categorizing the resin of a molding and a color tone distinguishing means for identifying the color tone of the molding and sorting out the molding in accordance with the distinguishing results of each of the means and further, grinding the sorted molding with an operation to detect and remove a foreign substance from the grinding pieces.

SOLUTION: A plastic molding supply means 1 aligns plastic moldings which are of various kinds of resins and also of different color tones in a mixed state and are used in domestic appliances and conveys the plastic moldings. In addition, a means 2 to distinguish the kind of a resin for distinguishing the kind of the resin for a molding, a means 4 to sort out the kind of a resin for sorting out the molding in accordance with the distinguishing results of the means 2, a color tone distinguishing means 3 for identifying the color tone of the molding and a color tone selecting means 5 for sorting out the moldings based on the identifying results of the means 3 are provided in a molding conveyance route of the means 1. The moldings sorted out by the kind of the resin and the color tone of the molding are ground using a grinding means 6 into ground pieces and these pieces are cleaned with the help of a cleaning means 8. Next a foreign substance contained in the cleaned ground pieces is removed using a foreign substance detecting/removing means 9.

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